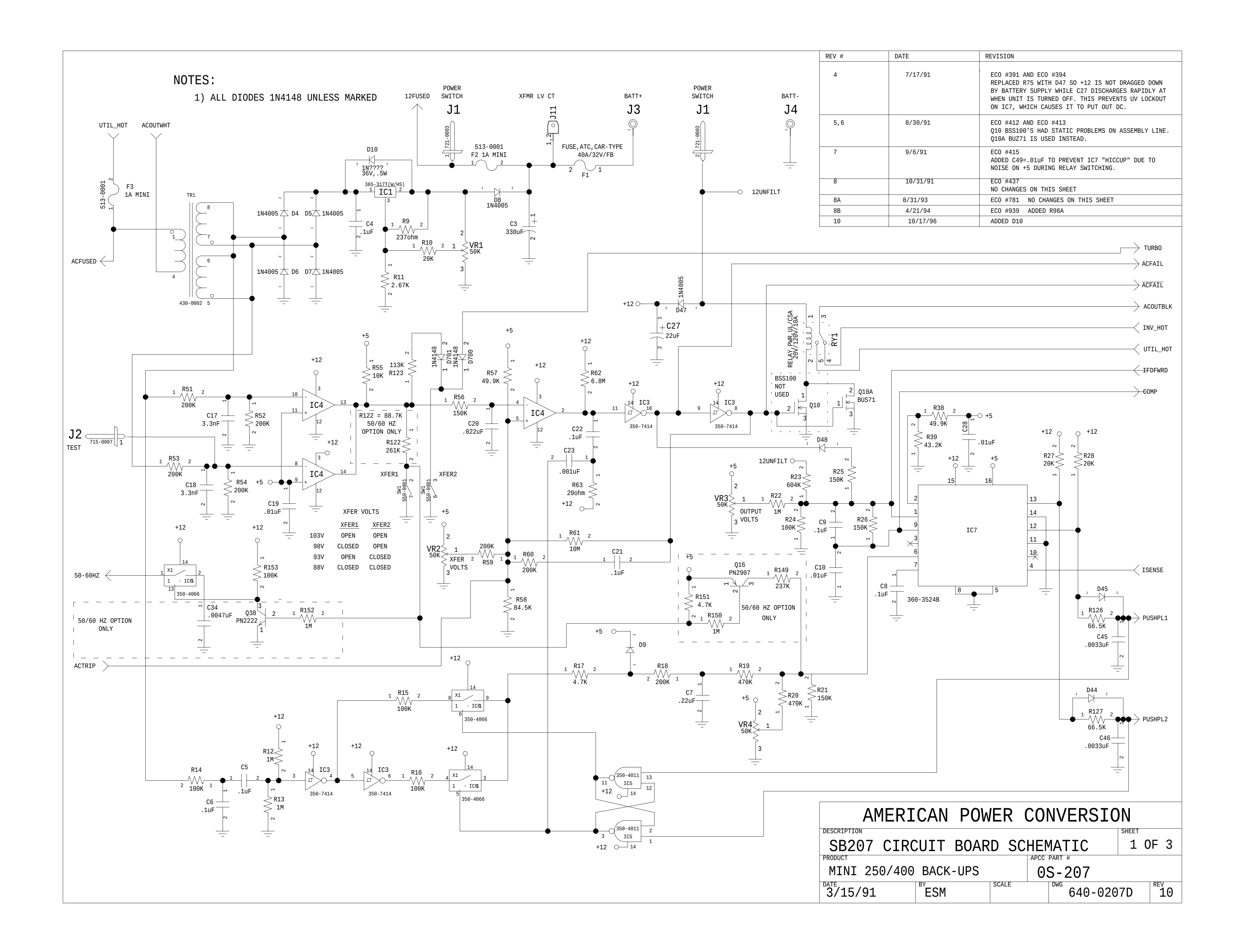

NOTES:
1) ALL DIODES 1N4148 UNLESS MARKED
REV #
DATE
REVISION
4
7/17/91
ECO #391 AND ECO #394
REPLACED R75 WITH D47 SO +12 IS NOT DRAGGED DOWN
BY BATTERY SUPPLY WHILE C27 DISCHARGES RAPIDLY AT
WHEN UNIT IS TURNED OFF. THIS PREVENTS UV LOCKOUT
ON IC7, WHICH CAUSES IT TO PUT OUT DC.
5,6
8/30/91
ECO #412 AND ECO #413
Q10 BSS100'S HAD STATIC PROBLEMS ON ASSEMBLY LINE.
Q10A BUZ71 IS USED INSTEAD.
7
9/6/91
ECO #415
ADDED C49=.01uF TO PREVENT IC7 "HICCUP" DUE TO
NOISE ON +5 DURING RELAY SWITCHING.
8
10/31/91
ECO #437
NO CHANGES ON THIS SHEET
8A
8/31/93
ECO #781 NO CHANGES ON THIS SHEET
8B
4/21/94
ECO #939 ADDED R98A
10
10/17/96
ADDED D10
UTIL_HOT
ACOUTWHT
ACFUSED
F3
1A MINI
513-0001
TR1
430-0002
12FUSED
POWER SWITCH
J1
721-0003
513-0001
F2 1A MINI
XFMR LV CT
J11
FUSE,ATC,CAR-TYPE
40A/32V/FB
F1
BATT+
J3
POWER SWITCH
J1
BATT-
J4
12UNFILT
D10
1N????
36V,.5W
365-317T(W/HS)
IC1
1N4005 D4
D5 1N4005
1N4005 D6
D7 1N4005
C4 .1uF
R9 237ohm
R10 20K
R11 2.67K
VR1 50K
D8 1N4005
C3 330uF
TURBO
ACFAIL
ACFAIL
ACOUTBLK
INV_HOT
UTIL_HOT
IFDFWRD
COMP
ISENSE
PUSHPL1
PUSHPL2
50-60HZ
ACTRIP
J2
TEST
715-0007
1N4005
D47
C27 22uF
RELAY PWR UL/CSA 20V/120V/10A
RY1
BSS100 NOT USED
Q10
Q10A BUS71
R51 200K
R52 200K
C17 3.3nF
R53 200K
R54 200K
C18 3.3nF
C19 .01uF
IC4
R55 10K
113K R123
R122 = 88.7K
50/60 HZ OPTION ONLY
R122 261K
1N4148 D701
1N4148 D700
R56 150K
C20 .022uF
R57 49.9K
R62 6.8M
C22 .1uF
C23 .001uF
R63 20ohm
IC3
350-7414
D48
R25 150K
R38 49.9K
R39 43.2K
C28 .01uF
R27 20K
R28 20K
12UNFILT
R23 604K
VR3 50K
R22 1M
OUTPUT VOLTS
R24 100K
C9 .1uF
R26 150K
C10 .01uF
C8 .1uF
IC7
360-3524B
XFER1
XFER2
SW1 550-0001
XFER VOLTS
XFER1
XFER2
103V OPEN OPEN
98V CLOSED OPEN
93V OPEN CLOSED
88V CLOSED CLOSED
VR2 50K
XFER VOLTS
R59 200K
R60 200K
R61 10M
C21 .1uF
R58 84.5K
Q16 PN2907
R149 237K
R151 4.7K
R150 1M
50/60 HZ OPTION ONLY
D45
R126 66.5K
C45 .0033uF
D44
R127 66.5K
C46 .0033uF
X1 IC6
350-4066
R153 100K
C34 .0047uF
Q38 PN2222
R152 1M
50/60 HZ OPTION ONLY
D9
R17 4.7K
R18 200K
R19 470K
C7 .22uF
R20 470K
R21 150K
VR4 50K
R15 100K
R12 1M
R13 1M
R14 100K
C5 .1uF
C6 .1uF
R16 100K
350-4011
IC5
AMERICAN POWER CONVERSION
DESCRIPTION
SB207 CIRCUIT BOARD SCHEMATIC
SHEET
1 OF 3
PRODUCT
MINI 250/400 BACK-UPS
APCC PART #
0S-207
DATE
3/15/91
BY
ESM
SCALE
DWG
640-0207D
REV
10